

数学与系统科学研究院

计算数学所学术报告

报告人: **Professor Changpin Li**

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报告题目:

**The Finite Difference Method for  
Caputo-type Parabolic Equation  
with Fractional Laplacian**

邀请人: 唐贻发 研究员

报告时间: 2017年10月27日(周五)

下午 16:00-17:00

报告地点: 数学院南楼六层

602 教室

## Abstract:

**In this talk, we present the finite difference method for fractional parabolic equation with fractional Laplacian, where the time derivative is the Caputo derivative with derivative order in  $(0, 1)$  and the spatial derivative in the fractional Laplacian. Stability, convergence, and error estimate are displayed. And the illustrative examples are provided which support the theoretical analysis.**

**欢迎大家参加！**